```
File 275:Gale Group Computer DB(TM) 1983-2005/Jun 14
         (c) 2005 The Gale Group
File 621:Gale Group New Prod. Annou. (R) 1985-2005/Jun 14
         (c) 2005 The Gale Group
File 636: Gale Group Newsletter DB (TM) 1987-2005/Jun 14
         (c) 2005 The Gale Group
     16:Gale Group PROMT(R) 1990-2005/Jun 14
File
         (c) 2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2005/Jun 14
         (c) 2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/Jun 14
         (c) 2005 McGraw-Hill Co. Inc
File 15:ABI/Inform(R) 1971-2005/Jun 14
         (c) 2005 ProQuest Info&Learning
File 647:CMP Computer Fulltext 1988-2005/May W5
         (c) 2005 CMP Media, LLC
File 674:Computer News Fulltext 1989-2005/Jun W1
         (c) 2005 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2005/Jun 13
         (c) 2005 The Dialog Corp.
File 369: New Scientist 1994-2005/Apr W4
         (c) 2005 Reed Business Information Ltd.
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 610:Business Wire 1999-2005/Jun 14
         (c) 2005 Business Wire.
File 613:PR Newswire 1999-2005/Jun 14
         (c) 2005 PR Newswire Association Inc
Set
        Items
                Description
                TIMESTAMP???? OR DATESTAMP???? OR (TIME OR DATE)()STAMP????
        17969
S1
                S1(10N)(DOCUMENT? ? OR PAGE? ? OR WEBPAGE? ? OR FILE? ? OR
S2
             RECORD? ? OR ARTICLE? ? OR DATA OR INFORMATION OR CONTENT)
                (VERSION? ? OR INSTANCE? ? OR DUPLICATE OR REPLICA? ? OR C-
S3
             OPY OR COPIES) (5N) (DOCUMENT? ? OR PAGE? ? OR WEBPAGE? ? OR FI-
             LE? ? OR RECORD? ? OR ARTICLE? ? OR DATA OR INFORMATION OR CO-
             NTENT)
                S1(20N)(HYPERLINK? ? OR LINK? ? OR URL OR RESOURCE()LOCATOR
S4
              OR (INTERNET OR IP OR WEB OR HTTP OR HYPERTEXT???) () ADDRESS?-
             ?)
                S2 (50N) S3 (50N) S4
$5
           22
S6
           13
                RD (unique items)
```

6/3,K/1 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

02425377 SUPPLIER NUMBER: 63919392 (USE FORMAT 7 OR 9 FOR FULL TEXT) iVision QOS Network Analyzer Gets Under the Hood of Your Net.(from NetCalibrate) (Software Review) (Evaluation)

Morrissey, Peter Network Computing, 24 August 7, 2000

DOCUMENT TYPE: Evaluation ISSN: 1046-4468 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 800 LINE COUNT: 00063

... viewing. Logging It In

The log keeps track of even more details. For example, it contains a time - stamped record of each instance a threshold is exceeded. The record contains the source and destination IP address and ports involved with each event as well as whether it was a packet loss or RTT...

6/3,K/2 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01962954 SUPPLIER NUMBER: 18527184 (USE FORMAT 7 OR 9 FOR FULL TEXT)
HTML Grinder 3.0 tweaks Web content. (Matterform Media HTML automation
software) (Brief Article) (Product Announcement)

Staten, James MacWEEK, v10, n29, p18(1) July 29, 1996

DOCUMENT TYPE: Brief Article Product Announcement ISSN: 0892-8118 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 203 LINE COUNT: 00019

... at once. The wheels let users create documents with expandable outlines, add next-page and previous-page links to a series of documents, find and replace text, calculate hexadecimal numbers for background and text colors, and date - stamp and index files.

Version 3.0 added tools for checking a site for broken links and images; adding Alt tags to images, used for text-only browsers; printing an entire site for...

6/3,K/3 (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01613921 SUPPLIER NUMBER: 13901763 (USE FORMAT 7 OR 9 FOR FULL TEXT) Tools and utilities. (software packages that help database developers prototype and design applications, query, and create help systems, among other uses) (1993 Database Buyer's Guide Special Issue) (Buyers Guide) DBMS, v6, n7, p63(33)

June 15, 1993

DOCUMENT TYPE: Buyers Guide ISSN: 1041-5173 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 45702 LINE COUNT: 03876

... lists, in detail, the complete contents of a library. The LibComp utility produces a comparison report including duplicate symbol conflicts between libraries. Includes data - and time - stamping capabilities to speed the compile/ link cycle. The manual includes an introduction to library management theory. Includes a full set of tutorials. Compatible...

6/3,K/4 (Item 4 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01494372 SUPPLIER NUMBER: 11676118 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Ami Pro 2.0 (Lotus Development Corp.'s software for the Microsoft Windows
3.0 graphical user interface) (Software Review) (One of 12 evaluations of
word processing packages in 'Getting It Write') (Evaluation)

PC Sources, v3, n1, p496(1)

Jan, 1992

DOCUMENT TYPE: Evaluation ISSN: 1052-6579 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 382 LINE COUNT: 00029

... with its new look, Ami Pro 2.0 puts new emphasis on business productivity. You can mark **documents**, compare **versions**, add **time** - **stamped** and initialed comments, and **link** to cc:Mail and Lotus Notes. And it has a collapsible and expandable outline view with a...

6/3,K/5 (Item 1 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2005 The Gale Group. All rts. reserv.

03763111 Supplier Number: 119732679 (USE FORMAT 7 FOR FULLTEXT) Vasont Systems Releases Vasont 9.0.

Business Wire, pNA

July 26, 2004

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 922

... versioning capability has been enhanced to provide a user-friendly interface to access the detailed component-level **version information**. In addition, comments can easily be added to any **time** - **stamped** version that the system captures.

Users Can Complete More Complicated Tasks with Advanced Editorial Tools

ENHANCED LINK MANAGEMENT - Solving one of the largest headaches in content management, Vasont 9.0 enhances Vasont's already...

6/3,K/6 (Item 2 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2005 The Gale Group. All rts. reserv.

03601095 Supplier Number: 111720420 (USE FORMAT 7 FOR FULLTEXT)
FTR Limited Introduces WordLink; Offers FTR Log Notes Users the Option of
Taking Notes in MS Word.

Business Wire, p5005

Dec 30, 2003

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 558

... member or legislative representative during a public hearing. They can then use the notes, along with a **copy** of the audio **record**, to link to relevant sections of the audio if they want to review portions of testimony or...

...WordLink's powerful yet simple-to-use features will also let transcribers create a truly valuable multimedia record . By including time stamps with FTR links throughout a transcript, they will be able to click anywhere in a transcript and immediately access the...

6/3,K/7 (Item 1 from file: 148) DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2005 The Gale Group. All rts. reserv.

0018015584 SUPPLIER NUMBER: 130045868 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The aggravations of aggregation. (discontent)

Crawford, Walt

EContent, 28, 1-2, 43(1) Jan-Feb, 2005

RECORD TYPE: Fulltext ISSN: 1525-2531 LANGUAGE: English

LINE COUNT: 00066 WORD COUNT: 853

know where you're being picked up and probably won't be able to charge for your content .

Whatever version you choose to use, you'll probably offer links on your Web site, which may take the...

...a little orange RSS or XML, a hotlink saying "Syndicate XML" or "Atom Feed. " Each icon or link offers up a feed--somewhere that pieces of content appear with time and date stamps, so that they can be harvested by aggregators. You may want to use subject-specific feeds or ...

(Item 2 from file: 148) DIALOG(R)File 148:Gale Group Trade & Industry DB (c) 2005 The Gale Group. All rts. reserv.

0017607650 SUPPLIER NUMBER: 124494923 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Google. (Internet Search Engine Update) (Brief Article)

Notess, Greg R.

Online, 28, 6, 12(1)

Nov-Dec, 2004

DOCUMENT TYPE: Brief Article ISSN: 0146-5422 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: LINE COUNT: 00022 258

### TEXT:

...In Google's very early days, it used to include both the date when Google crawled the page and the reported date stamp on the page at that time.) In addition, Google now offers a text-only version of the page . Again, this link is in the header of the cached page within the following statement: "This cached page may reference images which are no longer available. Click here for the cached text only." The text-only cache version uses the alternate text information from the HTML images tags of a page in place of the images and may also identify...

(Item 3 from file: 148) 6/3, K/9DIALOG(R)File 148:Gale Group Trade & Industry DB (c) 2005 The Gale Group. All rts. reserv.

SUPPLIER NUMBER: 94961105 (USE FORMAT 7 OR 9 FOR FULL TEXT) Google Expands Google News. (Letters to the Editor).

Information Today, 19, 11, 42(1)

Dec, 2002

ISSN: 8755-6286 LANGUAGE: English RECORD TYPE: Fulltext

LINE COUNT: 00067 WORD COUNT: 813

changes. These changes, such as minor edits to an article or even the addition of a new link at the bottom of an article, could also result in a time - stamp /update change for an individual page , making an article appear "fresher" than ...Factiva provides administrative tools in our news service that lets a user manage and filter Out multiple versions of an article, a productivity enhancement that Google does not provide.

An additional point that should be addressed is the...

6/3,K/10 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

02813815 735316151
Internet SEARCH ENGINE
Notess, Greg R
Online v28n6 PP: 12 Nov/Dec 2004
ISSN: 0146-5422 JRNL CODE: ONL

WORD COUNT: 877

...TEXT: In Google's very early days, it used to include both the date when Google crawled the page and the reported date stamp on the page at that time.) In addition, Google now offers a text-only version of the page. Again, this link is in the header of the cached page within the following statement: "This cached page may reference images which are no longer available. Click here for the cached text only." The text-only cache version uses the alternate text information from the HTML images tags of a page in place of the images and may also identify...

6/3,K/11 (Item 2 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

01034284 96-83677

Super hash serves up super privacy on the Internet

Trowbridge, Dave

Computer Technology Review v15n4 PP: 1, 38+ Apr 1995

ISSN: 0278-9647 JRNL CODE: CTN

WORD COUNT: 1532

... TEXT: published in The New York Times.

To ensure the integrity and high availability of the coordinating servers, copies of the Universal Validation Record are stored and updated at regular intervals. These servers, which may be maintained by third parties, are...in validating documents certified with the Digital Notary System. Surety also plans to publish the Universal Validation Record on CD-ROM with periodic updates.

The Digital Timestamp

The coordinating server then electronically transmits back to the user's computer the verifying data necessary to certify the document. This information includes a timestamp that, when mathematically combined by the Digital Notary software with the document's digital fingerprint, links the document to the Universal Validation Record. The Digital Notary software then issues a certificate for the...

6/3,K/12 (Item 1 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2005 CMP Media, LLC. All rts. reserv.

01220775 CMP ACCESSION NUMBER: NWC20000807S0004 iVision QOS Network Analyzer Gets Under the Hood of Your Net Peter Morrissey

NETWORK COMPUTING, 2000, n 1115, PG24

PUBLICATION DATE: 000807

JOURNAL CODE: NWC LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: Sneak Previews

WORD COUNT: 747

viewing.

Logging It In

The log keeps track of even more details. For example, it contains a time - stamped record of each instance a threshold is exceeded. The record contains the source and destination IP address and ports involved with each event as well as whether it was a packet loss or RTT...

6/3,K/13 (Item 1 from file: 810) DIALOG(R)File 810:Business Wire (c) 1999 Business Wire . All rts. reserv.

0362363 BW047

BORLAND: BORLAND ANNOUNCES NEW dBASE COMPILER 32-Bit Support Allows Users to Run the Fastest dBASE Applications Ever

October 18, 1993

Byline:

Business Editors/Computer Writers

...and dialog

boxes, for easier and more efficient compilation.

- AutoCompile and AutoLink that automatically locate, compile and link specified programs into an executable file .
- Date and **Time Stamp** saves time by only recompiling modified programs.
- Automatic access to four gigabytes of memory through the dynamic Virtual Memory Manager.
- Smaller .EXE size -- compiled applications are up to 50% smaller than version 1.0.
- Optional .DBO  ${\bf file}$  creation allows users to better manage object libraries.

# · 09/342,408

```
8:Ei Compendex(R) 1970-2005/Jun W1
File
         (c) 2005 Elsevier Eng. Info. Inc.
      35:Dissertation Abs Online 1861-2005/May
File
         (c) 2005 ProQuest Info&Learning
      65: Inside Conferences 1993-2005/Jun W2
File
         (c) 2005 BLDSC all rts. reserv.
       2: INSPEC 1969-2005/Jun W1
File
         (c) 2005 Institution of Electrical Engineers
      94:JICST-EPlus 1985-2005/Apr W4
File
         (c) 2005 Japan Science and Tech Corp (JST)
File
       6:NTIS 1964-2005/Jun W1
         (c) 2005 NTIS, Intl Cpyrght All Rights Res
File 144: Pascal 1973-2005/Jun W1
         (c) 2005 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
      34:SciSearch(R) Cited Ref Sci 1990-2005/Jun W1
File
         (c) 2005 Inst for Sci Info
      99: Wilson Appl. Sci & Tech Abs 1983-2005/May
File
         (c) 2005 The HW Wilson Co.
File 266: FEDRIP 2005/Jun
         Comp & dist by NTIS, Intl Copyright All Rights Res
      95:TEME-Technology & Management 1989-2005/May W2
File
         (c) 2005 FIZ TECHNIK
File 438:Library Lit. & Info. Science 1984-2005/May
         (c) 2005 The HW Wilson Co
File 256:TecInfoSource 82-2005/Apr
         (c) 2005 Info.Sources Inc
Set
        Items
                Description
S1
         5238
                TIMESTAMP???? OR DATESTAMP???? OR (TIME OR DATE)()STAMP????
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S2
             RECORD? ? OR ARTICLE? ? OR DATA OR INFORMATION OR CONTENT)
               (VERSION? ? OR INSTANCE? ? OR DUPLICATE OR REPLICA? ? OR C-
S3
        46044
             OPY OR COPIES) (5N) (DOCUMENT? ? OR PAGE? ? OR WEBPAGE? ? OR FI-
             LE? ? OR RECORD? ? OR ARTICLE? ? OR DATA OR INFORMATION OR CO-
             NTENT)
                S1(20N) (HYPERLINK? ? OR LINK? ? OR URL OR RESOURCE()LOCATOR
S4
              OR (INTERNET OR IP OR WEB OR HTTP OR HYPERTEXT???) () ADDRESS?-
             ?)
                S2 AND S3 AND S4
S5
```

# 09/342,408

File	347:JAPIO Nov 1976-2005/Feb(Updated 050606)		
	(c) 2005 JPO & JAPIO .		
File	e 350:Derwent WPIX 1963-2005/UD,UM &UP=200537		
	(c) 2005 Thomson Derwent		
Set	Items Description		
S1	3719 TIMESTAMP???? OR DATESTAMP???? OR (TIME OR DATE)()STAMP????		
S2	2042 S1(10N)(DOCUMENT? ? OR PAGE? ? OR WEBPAGE? ? OR FILE? ? OR		
	RECORD? ? OR ARTICLE? ? OR DATA OR INFORMATION OR CONTENT)		
S3	25926 (VERSION? ? OR INSTANCE? ? OR DUPLICATE OR REPLICA? ? OR C-		
	OPY OR COPIES) (5N) (DOCUMENT? ? OR PAGE? ? OR WEBPAGE? ? OR FI-		
	LE? ? OR RECORD? ? OR ARTICLE? ? OR DATA OR INFORMATION OR CO-		
	NTENT)		
S4	78 S1(20N)(HYPERLINK? ? OR LINK? ? OR URL OR RESOURCE()LOCATOR		
	OR (INTERNET OR IP OR WEB OR HTTP OR HYPERTEXT???) () ADDRESS?-		
	?)		
S5	7 S2 AND S3 AND S4		

5/5/1 (Item 1 from file: 347)

DIALOG(R) File 347: JAPIO

(c) 2005 JPO & JAPIO. All rts. reserv.

06608839 \*\*Image available\*\*

METHOD AND DEVICE FOR PERSISTENTLY ACCESSING WEB RESOURCE

PUB. NO.: 2000-194644 [JP 2000194644 A]

PUBLISHED: July 14, 2000 (20000714)

INVENTOR(s): ONG PING-WEN

APPLICANT(s): LUCENT TECHNOL INC APPL. NO.: 11-341725 [JP 99341725]

FILED: December 01, 1999 (19991201)

PRIORITY: 201751 [US 98201751], US (United States of America), December

01, 1998 (19981201)

INTL CLASS: G06F-013/00; G06F-012/00

#### ABSTRACT

PROBLEM TO BE SOLVED: To handle a web as a reliable composed reference source by sending the **version** of an electronic **document** stored temporally nearby a requested **time stamp**.

SOLUTION: A web browser 100 accesses information from one or more persistent web servers 140 and 150 through the Internet or worldwide web environment 130. A uniform resource locator (URL) for identifying a web resource is so reinforced as to include a time stamp. The web browser 100 and persistent web servers 140 and 150 has additional time stamp parameters and a user refers to an arbitrary web address having a target date and time. In this case, A request for the version of an electronic document which includes the index of a time stamp is received and when the version of the electronic document having the requested time stamp is not present, the version of an electronic document stored temporal nearby the requested time stamp is sent.

COPYRIGHT: (C) 2000, JPO

5/5/2 (Item 2 from file: 347)

DIALOG(R) File 347: JAPIO

(c) 2005 JPO & JAPIO. All rts. reserv.

06608838 \*\*Image available\*\*

METHOD AND DEVICE FOR PERSISTENTLY STORING WEB RESOURCE

PUB. NO.: 2000-194643 [JP 2000194643 A]

PUBLISHED: July 14, 2000 (20000714)

INVENTOR(s): ONG PING-WEN

APPLICANT(s): LUCENT TECHNOL INC

APPL. NO.: 11-341724 [JP 99341724] FILED: December 01, 1999 (19991201)

PRIORITY: 201752 [US 98201752], US (United States of America), December

01, 1998 (19981201)

INTL CLASS: G06F-013/00; G06F-012/00

# ABSTRACT

PROBLEM TO BE SOLVED: To handle a web as a reliable composed reference source by updating a hyperlink so that the time stamp of the requested version of an electronic document is included.

SOLUTION: A web browser 100 accesses information from one or more persistent web servers 140 and 150 through the Internet or worldwide web environment 130. A uniform resource locator (URL) for identifying a web resource is so reinforced as to include a time stamp. The web

browser 100 and persistent web servers 140 and 150 has additional time stamp parameters and a user refers to an arbitrary web address having a target date and time. In this case, the version of an electronic document is corrected and the hyperlink embedded in the requested version of the electronic document is so updated as to include the time stamp of the requested version and sent to the client.

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5/5/3 (Item 3 from file: 347)

DIALOG(R) File 347: JAPIO

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METHOD AND DEVICE FOR PERSISTENTLY ACCESSING WEB RESOURCE BY USING RELATIVE TIME STAMP

PUB. NO.: 2000-194642 [JP 2000194642 A]

PUBLISHED: July 14, 2000 (20000714)

INVENTOR(s): ONG PING-WEN

APPLICANT(s): LUCENT TECHNOL INC

APPL. NO.: 11-341723 [JP 99341723]

FILED: December 01, 1999 (19991201)

PRIORITY: 201750 [US 98201750], US (United States of America), December

01, 1998 (19981201)

INTL CLASS: G06F-013/00; G06F-012/00

#### ABSTRACT

PROBLEM TO BE SOLVED: To handle a web as a reliable composed reference source by receiving a request including a relative time stamp indicating a time offset and sending the **version** of the corresponding electronic **document**.

SOLUTION: A web browser 100 accesses information from one or more persistent web servers 140 and 150 through the Internet or worldwide web environment 130. A uniform resource locator (URL) for identifying a web resource is so reinforced as to include a time stamp. The web browser 100 and persistent web servers 140 and 150 has additional time stamp parameters and a user refers to an arbitrary web address having a specific target date and time. In this case, a request for the version of an electronic document which includes the relative time stamp indicating the time offset from specific time is received and the version of the corresponding electronic document is transmitted.

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5/5/4 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

014311550

WPI Acc No: 2002-132252/200218

XRPX Acc No: N02-099774

Persistent Internet resource access for historical research archive service, using URL including a time - stamp indicated by associated request header and redirect URL to obtain document from identified archive server

Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE )

Inventor: ONG P

Number of Countries: 029 Number of Patents: 004

Patent Family:

Patent No Kind Date Applicat No Kind Date Week EP 1160692 A2 20011205 EP 2001304491 A 20010522 200218 B

20011206 AU 200146223 A 20010523 AU 200146223 A 200218 CA 2342558 A1 20011130 JP 2002055869 A 20020220 CA 2342558 20010330 Α 200218 A 20020220 JP 2001161581 20010530 200219 Priority Applications (No Type Date): US 2000580149 A 20000530 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes A2 E 18 G06F-017/30 EP 1160692 Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR G06F-017/30 AU 200146223 A CA 2342558 A1 E G06F-017/30 JP 2002055869 A 13 G06F-012/00 Abstract (Basic): EP 1160692 A2 NOVELTY - The document request is received from a browser, where Locator ( URL ) address identifying an the Uniform Resource electronic document includes a time - stamp, which is indicated by an associated request header. A redirect URL is transmitted, where the transmitted network address is a URL redirect request that initiates a receiver of the network address to obtain the requested version of the electronic document from a document archive server that is identified by satisfying predefined criteria. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: (1) A system for storing an electronic document. (2) A computer program for accessing an electronic document. USE - Internet archive service for historical research. ADVANTAGE - Provides an Internet archive service that gives persistent access to web resources. Time-stamped URLs that identify Web resources are combined with URL redirect techniques to create an Internet archive service to make the Internet persistent. The time stamp can be specified in the URL in any suitable format and ensures that a time - stamped reference to any Wed resource refers to the desired material. In this manner anyone doing historical research on the Web can retrieve information that is valid in any period of time. pp; 18 DwgNo 0/7 Title Terms: PERSISTENT; RESOURCE; ACCESS; HISTORY; RESEARCH; ARCHIVE; SERVICE; TIME; STAMP; INDICATE; ASSOCIATE; REQUEST; HEADER; REDIRECT; OBTAIN; DOCUMENT; IDENTIFY; ARCHIVE; SERVE Derwent Class: T01 International Patent Class (Main): G06F-012/00; G06F-017/30 International Patent Class (Additional): G06F-013/00; G06F-017/60; H04L-012/16 File Segment: EPI (Item 2 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2005 Thomson Derwent. All rts. reserv. 014286963 \*\*Image available\*\* WPI Acc No: 2002-107664/200215 Related WPI Acc No: 2001-600705 XRPX Acc No: N02-080142 Multimedia document link creation method for computer network, involves storing latest modified time stamp information of each object in validity check field for creating link to multimedia document
Patent Assignee: HYUNDAI ELECTRONICS IND CO LTD (HYUN-N); KANG C H (KANG-I) ; OH S W (OHSW-I); SEOL S H (SEOL-I) Inventor: KANG C H; OH S W; SEOL S H Number of Countries: 028 Number of Patents: 004

Applicat No

A1 20010613 EP 2000126018 A

Kind Date

20001128 200215 B

Patent Family:

Patent No

EP 1107128

Kind Date

Α 20010803 JP 2000368314 20001204 JP 2001209570 A 200215 US 20010025284 A1 20010927 US 2000729559 Α 20001204 200215 US 6892220 B2 20050510 US 2000729559 20001204 200532 Α Priority Applications (No Type Date): KR 9954869 A 19991203 Patent Details: Patent No Kind Lan Pq Filing Notes Main IPC A1 E 16 G06F-017/30 EP 1107128 Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR JP 2001209570 A 8 G06F-012/00 US 20010025284 A1 G06F-012/00 US 6892220 B2 G06F-015/16 Abstract (Basic): EP 1107128 A1 NOVELTY - The latest modified time stamp information relating to last modification time of each object or latest version information of each object is stored in validity check field. The stored information is used to create link to multimedia document. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: (a) Link validity checking method; (b) Link validity checking apparatus USE - For link creation in computer network e.g. internet, for effective utilization of multimedia documents. ADVANTAGE - By storing last modified time stamp information of each object in validity check field, the link consistency is assured. By the link creation, the system error amount and communication cost are reduced, while searching and browsing.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart explaining link validity checking method. pp; 16 DwgNo 6/7 Title Terms: DOCUMENT; LINK; CREATION; METHOD; COMPUTER; NETWORK; STORAGE; LATE; MODIFIED; TIME; STAMP; INFORMATION; OBJECT; VALID; CHECK; FIELD; LINK; DOCUMENT Derwent Class: T01 International Patent Class (Main): G06F-012/00; G06F-015/16; G06F-017/30 File Segment: EPI 5/5/6 (Item 3 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2005 Thomson Derwent. All rts. reserv. 014116493 \*\*Image available\*\* WPI Acc No: 2001-600705/200168 Related WPI Acc No: 2002-107664 System and method for detecting effectiveness of link by using data storage device Patent Assignee: HYNIX SEMICONDUCTOR INC (HYNI-N); PANTECH & CURITEL CO LTD (PANT-N); SUL S H (SULS-I) Inventor: KANG C H; OH S U; SUL S H; OH S W Number of Countries: 001 Number of Patents: 002 Patent Family: Patent No Kind Applicat No Week Date Kind Date KR 2001039489 A 20010515 KR 9954869 Α 19991203 200168 B KR 423722 20040320 KR 9954869 19991203 200445 Priority Applications (No Type Date): KR 9942346 A 19991001 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes KR 2001039489 A 1 G06F-017/25 Previous Publ. patent KR 2001039489 G06F-017/25 KR 423722 В

Abstract (Basic): KR 2001039489 A

NOVELTY - A link effectiveness detection system and method is provided to check the change of the contents referred by a link by using a version or a time stamp data of a document or a multimedia data .

DETAILED DESCRIPTION - The method comprises steps of reading a position data stored in a position data field of a link made in advance(S1), going to the position and checking if a text or a multimedia data exists at the position(S2), obtaining data corresponding to an effective detection field at a reference data if the data exists at the position(S3), checking if the obtained data is identical to the data stored in an effective detection field of a link(S4), performing a corresponding reference process in the case that the obtained data is identical to the data stored in an effective detection field of a link(S5), and making a reference error process in the case that the obtained data is different from the data stored in an effective detection field of a link(S6).

pp; 1 DwgNo 1/10

Title Terms: SYSTEM; METHOD; DETECT; EFFECT; LINK; DATA; STORAGE; DEVICE

Derwent Class: T01

International Patent Class (Main): G06F-017/25

File Segment: EPI

# 5/5/7 (Item 4 from file: 350) DIALOG(R) File 350: Derwent WPIX

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013196208 \*\*Image available\*\*
WPI Acc No: 2000-368081/200032

XRPX Acc No: N00-275521

Method for persistent storage of electronic document by modifying requested version of electronic document to update embedded to incorporate time - stamp of requested version of electronic document and transmitting it to client

Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE )

Inventor: ONG P

Number of Countries: 027 Number of Patents: 003

Patent Family:

Patent No Kind Date Applicat No Kind Date Week 20000607 EP 99309298 19991123 200032 B EP 1006462 A2 Α JP 2000194643 A 20000714 JP 99341724 Α 19991201 200039 US 20050108626 A1 20050519 US 98201752 19981201 200534 Α US 200414342 20041216 Α

Priority Applications (No Type Date): US 98201752 A 19981201; US 200414342 A 20041216

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1006462 A2 E 12 G06F-017/30

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

JP 2000194643 A 10 G06F-013/00

US 20050108626 A1 G06F-017/00 Cont of application US 98201752

Abstract (Basic): EP 1006462 A2

NOVELTY - A request may be received for one of the versions of the electronic document. The request includes a time - stamp. The requested version of the electronic document is modified to update embedded hyperlinks in the requested version of the electronic document to incorporate the time - stamp of the requested version of the electronic document. The requested electronic document is transmitted to a client.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:

(a) a system for storing an electronic  ${\tt document}$  having multiple  ${\tt versions}$ 

(b) an article of manufacture for accessing an electronic document and comprising a computer readable medium including a computer readable program code

USE - As Internet resource access techniques for ensuring persistent access to Internet resources.

ADVANTAGE - The time stamp can be specified in the URL in any suitable format. Allows a user to refer to any Web address with a precise target time. Allows the Web to be an organized and reliable reference source, much like paper-based media.

DESCRIPTION OF DRAWING(S) - The drawing illustrates an Internet or World Wide Web environment in accordance with the principles of the present invention.

pp; 12 DwgNo 1/6

Title Terms: METHOD; PERSISTENT; STORAGE; ELECTRONIC; DOCUMENT; MODIFIED; REQUEST; VERSION; ELECTRONIC; DOCUMENT; UPDATE; EMBED; INCORPORATE; TIME; STAMP; REQUEST; VERSION; ELECTRONIC; DOCUMENT; TRANSMIT; CLIENT Derwent Class: T01

International Patent Class (Main): G06F-013/00; G06F-017/00; G06F-017/30

International Patent Class (Additional): G06F-012/00

File Segment: EPI

```
8:Ei Compendex(R) 1970-2005/Jun W1
File
         (c) 2005 Elsevier Eng. Info. Inc.
      35:Dissertation Abs Online 1861-2005/May
File
         (c) 2005 ProQuest Info&Learning
      65: Inside Conferences 1993-2005/Jun W2
File
         (c) 2005 BLDSC all rts. reserv.
       2: INSPEC 1969-2005/Jun W1
File
         (c) 2005 Institution of Electrical Engineers
      94:JICST-EPlus 1985-2005/Apr W4
File
         (c)2005 Japan Science and Tech Corp(JST)
File
       6:NTIS 1964-2005/Jun W1
         (c) 2005 NTIS, Intl Cpyrght All Rights Res
File 144: Pascal 1973-2005/Jun W1
         (c) 2005 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
      34:SciSearch(R) Cited Ref Sci 1990-2005/Jun Wl
File
         (c) 2005 Inst for Sci Info
      99:Wilson Appl. Sci & Tech Abs 1983-2005/May
         (c) 2005 The HW Wilson Co.
File 266:FEDRIP 2005/Jun
         Comp & dist by NTIS, Intl Copyright All Rights Res
      95:TEME-Technology & Management 1989-2005/May W2
         (c) 2005 FIZ TECHNIK
File 438:Library Lit. & Info. Science 1984-2005/May
         (c) 2005 The HW Wilson Co
File 275:Gale Group Computer DB(TM) 1983-2005/Jun 14
         (c) 2005 The Gale Group
File 621:Gale Group New Prod. Annou. (R) 1985-2005/Jun 14
         (c) 2005 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2005/Jun 14
         (c) 2005 The Gale Group
     16:Gale Group PROMT(R) 1990-2005/Jun 14
         (c) 2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2005/Jun 14
         (c) 2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/Jun 14
         (c) 2005 McGraw-Hill Co. Inc
      15:ABI/Inform(R) 1971-2005/Jun 14
         (c) 2005 ProQuest Info&Learning
File 647:CMP Computer Fulltext 1988-2005/May W5
         (c) 2005 CMP Media, LLC
File 674: Computer News Fulltext 1989-2005/Jun W1
         (c) 2005 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2005/Jun 13
         (c) 2005 The Dialog Corp.
File 369: New Scientist 1994-2005/Apr W4
         (c) 2005 Reed Business Information Ltd.
Set
        Items
                Description
S1
          256
                WAYBACK () MACHINE
                 (WEB OR INTERNET) () ARCHIVE
S2
         1700
                S1:S2 NOT PY=2000:2005
S3
          395
                S3 AND (DATE? ? OR DATESTAMP? ? OR TIME? ? OR TIMESTAMP? ?-
S4
           16
             )(10N)(LINK? ? OR HYPERLINK? ?)
S5
           11
                RD (unique items)
```

5/3,K/2 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

02005362 SUPPLIER NUMBER: 18867945 (USE FORMAT 7 OR 9 FOR FULL TEXT)
An ecumenical array of holiday cheer enlivens the Internet.(Online
Grapevine) (News Briefs) (Brief Article)

Savetz, Kevin

Computer Shopper, v16, n12, p656(2)

Dec, 1996

DOCUMENT TYPE: Brief Article ISSN: 0886-0556 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 1463 LINE COUNT: 00116

... Christmas Page (http:// gagme.wwa.com/ boba/christmas.html), which includes a merry myriad of links. The out-of- date ones are offset by joyous poems, stories, and carols.

The Festival of Lights means more...

...they plan to have stored some 10 terabytes of information. For more information about the <code>Internet Archive</code>, visit http://www.archive.org. That's all well and good, you say, but you...

5/3,K/4 (Item 1 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2005 The Gale Group. All rts. reserv.

01723228 Supplier Number: 53064906 (USE FORMAT 7 FOR FULLTEXT) Web Surfing Gets Down to Business With Alexa 3.0. Business Wire, p1250

Oct 7, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 777

... to visit which are related to the page being viewed. Navigating with Alexa's Related Links saves time by taking users directly to similar sites that might otherwise be difficult to find with...

...company donates a copy of the Web on an ongoing basis to the non-profit Internet Archive , which is endowed to preserve our digital heritage for scholarly access.

The free Alexa Web...

5/3,K/8 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

09888357 SUPPLIER NUMBER: 19966713 (USE FORMAT 7 OR 9 FOR FULL TEXT)
'It was here a minute ago!': archiving on the Net.

Feldman, Susan E.

Searcher, v5, n9, p52(13)

Oct, 1997

ISSN: 1070-4795 LANGUAGE: English RECORD TYPE: Fulltext; Abstract WORD COUNT: 10156 LINE COUNT: 00813

...ABSTRACT: searchers and librarians determined to preserve, store and save pieces of information for posterity. An **Internet archive** helps in the collection of resources that helps to determine what types of online information...

... the sources overlap, which explains some of the overlap in this article.

What Is an **Internet Archive**?

Good question. I ran across several archival flavors in the course of gathering information for...

...concerned with facilitating access to materials than with preserving them. Other sites, such as the <code>Internet Archive</code>, try to collect everything on the "public Web," but have not yet made the collection...

...electronic materials range from the "preserve everything and then we'll decide" mentality of the **Internet Archive** to the extremely selective approach of OCLC. The situation with the Internet frankly does not... information currently on the Internet. They plan to make their collections publicly accessible.

1. The Internet Archive (http://www.archive.org/)
"We just think it's worthwhile to do, and if we...

#### ...Brewster Kahle

Squarely at the save-it-all end of the archive spectrum sits the Internet Archive. Started by Brewster Kahle, well-known for his creation of the WAIS (Wide Area Information Server) architecture, the Internet Archive plans to save everything it can from the Web. In addition, they store postings from Usenet newsgroups and a few FTP sites. Note, however, that the Internet Archive crawls only the "public Web." Anything hidden behind a registration box, a query box, or...

...probably not accessible. Nor does it reach information on sites running robot exclusion software.

The Internet Archive adds roughly 1.5 terabytes of data a month and has already amassed seven terabytes...

 $\dots$  pages. It also uses an "MD5 checksum" to compare new pages with old ones.

The **Internet Archive** crawler differs from most others in that it crawls on a site basis and keeps...

...are crawled in their entirety.

Mike Burner of Alexa Internet, the commercial side of the Internet Archive, tells me that they do care about intellectual property issues. They will retroactively remove materials if requested by the originator.

The Internet Archive plans to offer searchable access to its information, but does not offer it yet. However...
...on a Windows machine, offers the option of having Alexa retrieve the original page every time you get a broken link "Error 404" message.
Alexa also gives you information about the site, such as company name...

...version of the page. Alexa depends on advertising income to support both itself and the  ${f Internet}$   ${f Archive}$  .

2. A Business Compass (http://ab compass.com)

So far as I know, A Business...broken link message, "Error 404." As mentioned above, Alexa, a new service based on the Internet Archive, hopes to alleviate this frustration.

More often than not the Webmaster just pulls material off...or some form thereof, will prevent the loss of information when moved. Programs like the Internet Archive and Alexa will automatically save and locate that which has disappeared from the present Web...advocate in the annual battle for funds?

What to Keep? Selectivity vs. "Packrat-itis"

The Internet Archive crawls the Internet at regular intervals and takes nonjudgmental snapshots of everything that it finds serious Internet archive requires three very different sets of expertise:

- 1. Foraging for and collecting materials requires:
- \* Access...

... best in methodical make decisions later.

First, help the forces already in the field. The Internet Archive has made a good start, but they need to expand their coverage to include

the...

...remain more memorable.

In the short run we can rely on groups such as the Internet Archive and A Business Compass to amass and store Internet content. Meanwhile, information professionals can continue...must wonder who would organize such a project and how they would do it. The Internet Archive is attempting to create such a central searchable repository. But it can't get at...

5/3,K/10 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

01634116 02-85105

Alexa: Web archive, advisor, and statistician

Notess, Greg R

Online v22n3 PP: 29-30 May/Jun 1998

ISSN: 0146-5422 JRNL CODE: ONL

WORD COUNT: 849

Alexa: Web archive, advisor, and statistician

ABSTRACT: Now, from Brewster Kahle, the originator of WAIS and founder of the Internet Archive, comes Alexa. This intriguing Web tool functions as a statistical information source for Web pages...

...TEXT: on the Web. Now, from Brewster Kahle, the originator of WAIS and founder of the Internet Archive, comes Alexa. This intriguing Web tool functions as a statistical information source for Web pages...

...while others are not. For example, if you visit the Washington Post site, Alexa suggests <code>links</code> to USA Today, the New York <code>Times</code>, and the Wall Street Journal, along with the strange Mr. Media site. From the Online

...to track ownership and statistics of Web sites, or who may need access to the Internet Archive, Alexa is well worth the download.

Communications to the author should be addressed to Greg... ? t/3, k/11

5/3,K/11 (Item 2 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

01347732 99-97128
Skin deep in appearances
Gustavson, Ron
CD-ROM Professional v9n12 PP: 68, 70 Dec 1996
ISSN: 1049-0833 JRNL CODE: LDP
WORD COUNT: 2723

...TEXT: home page in a frame and provides any visitor with a directory view of the Web archive. Using the SITEview editor, developers can add a description of each page title to the...

...of the entire site is viewable by categories denoting file size, file type, and the **date** each file was last modified. All broken or outdated **links** show up in red. Clicking on one of these broken links will highlight the URL...La Jolla, California. Both these programs explore HTML archives and produce browsable reports on download **times**, missing or unused images, and broken **links**.

09/342,402

File 348:EUROPEAN PATENTS 1978-2005/Jun W02
(c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050609,UT=20050602
(c) 2005 WIPO/Univentio

Set	Items	Description
S1	14396	TIMESTAMP???? OR DATESTAMP???? OR (TIME OR DATE)()STAMP????
S2	8829	S1(10N)(DOCUMENT? ? OR PAGE? ? OR WEBPAGE? ? OR FILE? ? OR
	RE	CORD? ? OR ARTICLE? ? OR DATA OR INFORMATION OR CONTENT)
S3	79355	(VERSION? ? OR INSTANCE? ? OR DUPLICATE OR REPLICA? ? OR C-
	OP	Y OR COPIES) (5N) (DOCUMENT? ? OR PAGE? ? OR WEBPAGE? ? OR FI-
	LE	? ? OR RECORD? ? OR ARTICLE? ? OR DATA OR INFORMATION OR CO-
	NT	PENT)
S4	986	S1 (20N) (HYPERLINK? ? OR LINK? ? OR URL OR RESOURCE()LOCATOR
	C	R (INTERNET OR IP OR WEB OR HTTP OR HYPERTEXT???) () ADDRESS?-
	?)	
S5	48	S2 (50N) S3 (50N) S4
S6	39	S5 AND AC=US/PR
S7	21	S6 AND AY=(1970:1999)/PR
S8	8	S5 AND PY=1970:1999
S9	23	S7:S8

(Item 7 from file: 348) 9/3, K/7DIALOG(R) File 348: EUROPEAN PATENTS (c) 2005 European Patent Office. All rts. reserv. 01155994 A method and apparatus for persistent access to web resources using relative time-stamps Verfahren und Gerat fur einen dauerhaften Zugriff auf Web Betriebsmittel mit relativer Zeitfestlegung Un procede et dispositif pour l'acces persistant de ressources web avec horodateurs relatifs PATENT ASSIGNEE: LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, (US), (Applicant designated States: all) INVENTOR: Ong, Ping-Wen, 430 Laurel Avenue, Middletown, New Jersey 07748, (US) LEGAL REPRESENTATIVE: Watts, Christopher Malcolm Kelway, Dr. et al (37392), Lucent Technologies (UK) Ltd, 5 Mornington Road, Woodford Green Essex IG8 OTU, (GB) PATENT (CC, No, Kind, Date): EP 1006466 A2 000607 (Basic) APPLICATION (CC, No, Date): EP 99309331 991123; PRIORITY (CC, No, Date): US 201750 981201 DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI INTERNATIONAL PATENT CLASS: G06F-017/30 ABSTRACT WORD COUNT: 161 NOTE: Figure number on first page: 1 LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY: Available Text Language Update Word Count 200023 304 CLAIMS A (English) SPEC A (English) 200023 3847 Total word count - document A 4151 Total word count - document B Total word count - documents A + B 4151 ... SPECIFICATION the month, day and year (or other time units) can be expressed in any order. For a URL without a time stamp, the default

value will be the most recent version.

In addition, relative time...

# ...the form:

http://www.lucent.com?time=yesterday

The browser and server will interpret and translate the URL as

http://www.lucent.com?rtime=1998(underscore)1(underscore)9. Other relative time stamps can include time offsets from the time of the current web page, such as plus or minus...

...currently viewed web page.

In order to refer to the previous or subsequent archived version of a document (relative to the time stamp of the current document ), the URL can be represented using the labels "next(underscore)archive," or "previous (underscore) archive." The server will search...

...document to refer to one of these archives:

doc.html?rtime=next(underscore)archive

stamps make moving between different These relative archive time version of the same documents more efficient.

In an alternate implementation, referred to herein as the "request-header scheme," the time stamp...

...herein as the "special character scheme," special characters can be utilized to indicate the inclusion of a time stamp in the URL, such as:

http://www.cnnfn.com;time=2+2+1998&timezone=server.

Web Browser

The Web browser...

...time. In fact, a conventional Web browser 100 can be utilized, with the user manually appending the **time** stamp to the URL indicated in the "Location" window of the browser 100.

In one implementation, the...

...Time-Stamp: June 9, 1998"). In addition, the HTML should be modified to include a new time stamp tag for any embedded hyberlink with a specific time stamp. For example, for a hyperlink such as:

<A HREF="www.lucent.com">Lucent Web Site</A>

the HTML...servers 140, 150 need to know how to (i) receive URLs containing a time stamp or relative time -stamp, (ii) extract the time stamp, (iii) retrieve the Web page corresponding to the appropriate time - stamp, and (iv) return the requested page to the client. The persistent Web servers 140, 150 should interpret the extracted URL in accordance with the selected time stamp format.

If a version of the Web resource corresponding to the requested time does not exist, the present invention provides a **version** of the **document** stored time-wise in the vicinity of the requested target time. For example, the present invention may...

- CLAIMS 1. A method for providing an electronic **document**, said electronic document having multiple versions, each of said versions having a time-stamp, said method comprising the steps of:
  - receiving a request for one of said versions of said electronic document, said request including a relative time-stamp indicating a time offset from a predefined time; and
  - transmitting said **version** of said electronic **document** corresponding to said relative time-stamp.
  - 2. The method according to claim 1, further comprising the step of storing a pointer to a previous version of said electronic document when said previous version of said electronic document is substantially identical.
  - 3. The method according to claim 1, wherein an address identifying said electronic document...

...using a browser.

- 7. The method according to claim 1, further comprising the step of transmitting the version of said electronic document with the most recent time-stamp preceding the requested time-stamp when a version of said electronic document does not exist with the requested relative time-stamp.
- 8. A system for storing an electronic **document** having multiple **versions**, said system comprising:
- a memory for storing said multiple versions of said electronic document in an archive of electronic documents; and
- a processor operatively coupled to said memory, said processor configured...

9/3,K/8 (Item 8 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS (c) 2005 European Patent Office. All rts. reserv. 01155993 A method and apparatus for resolving domain names of persistent Web resources Verfahren und Vorrichtung zum Auflosen von Raumnamen von dauerhaften Web-Betriebsmittel Methode et appareil pour resoudre les noms de domaines de ressources permanentes du Web PATENT ASSIGNEE: LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, (US), (Applicant designated States: all) INVENTOR: Ping-Wen, Ong, 430 Laurel Avenue, Middletown, New Jersey 07748, (US) LEGAL REPRESENTATIVE: Watts, Christopher Malcolm Kelway, Dr. et al (37391), Lucent Technologies (UK) Ltd, 5 Mornington Road, Woodford Green Essex, IG8 0TU, (GB) NT (CC, No, Kind, Date): EP 1006465 A2 000607 (Basic) PATENT (CC, No, Kind, Date): EP 1006465 A3 050413 EP 99309330 991123; APPLICATION (CC, No, Date): PRIORITY (CC, No, Date): US 201749 981201 DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI INTERNATIONAL PATENT CLASS: G06F-017/30 ABSTRACT WORD COUNT: 219 NOTE: Figure number on first page: 1 LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY: Available Text Language Update Word Count CLAIMS A (English) 200023 486 SPEC A (English) 200023 3863 Total word count - document A 4349 Total word count - document B 0 Total word count - documents A + B 4349

...SPECIFICATION the month, day and year (or other time units) can be expressed in any order. For a URL without a time stamp, the default value will be the most recent version.

In addition, relative time...

# ...the form:

http://www.lucent.com?time=yesterday The browser and server will interpret and translate the URL as

http://www.lucent.com?rtime=1998(underscore)1(underscore)9.
Other relative time stamps can include time offsets from the time of the current web page, such as plus or minus...

...currently viewed web page.

In order to refer to the previous or subsequent archived version of a document (relative to the time stamp of the current document), the URL can be represented using the labels "next(underscore)archive," or "previous(underscore)archive." The server will search...

...document to refer to one of these archives:

doc. html?rtime=next(underscore)archive These relative archive time stamps make moving between different version of the same documents more efficient.

In an alternate implementation, referred to herein as the "request-header scheme," the time stamp...

...herein as the "special character scheme," special characters can be utilized to indicate the inclusion of a time stamp in the URL, such as:

http://www.cnnfn.com;time=2+2+1998&timezone=server.

Web Browser

The Web browser...

CLAIMS 1. A method for providing an electronic document having at least
 one version identified by a time-stamp, said method comprising the
 steps of:
 receiving...

...The method according to claim 1, further comprising the step of transmitting the version of said electronic **document** with the most recent time-stamp preceding the requested time-stamp if a **version** of said electronic **document** does not exist with the requested time-stamp.

3. A method for resolving a domain name, said...

...time-stamp: and

transmitting an indication of said identified machine storing said electronic document corresponding to said time - stamp .

- 4. The method according to any of the preceding claims, wherein an address identifying said electronic document includes said time stamp.
- 5. The method according to claim 4, wherein said address is a Uniform Resource Locator ("URL").

6...

- ...8. The method according to any of the preceding claims, wherein said time-stamp is a relative time stamp.
  - 9. A system for storing an electronic document having multiple versions, said system comprising:
  - a memory for storing said multiple versions of said electronic document in an archive of electronic documents; and
  - a processor operatively coupled to said memory, said processor configured...

9/3,K/9 (Item 9 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01155986

A method and apparatus for persistent access to web resources Verfahren und Vorrichtung fur den dauerhaften Zugriff auf Web-Betriebsmittel

Methode et appareil pour l'acces permanent a des ressources du Web PATENT ASSIGNEE:

LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, (US), (Applicant designated States: all) INVENTOR:

Ong, Ping-Wen, 430 Laurel Avenue, Middletown, New Jersey 07748, (US) LEGAL REPRESENTATIVE:

Watts, Christopher Malcolm Kelway, Dr. et al (37391), Lucent Technologies (UK) Ltd, 5 Mornington Road, Woodford Green Essex, IG8 0TU, (GB)
PATENT (CC, No, Kind, Date): EP 1006463 A2 000607 (Basic)
APPLICATION (CC, No, Date): EP 99309316 991123;
PRIORITY (CC, No, Date): US 201751 981201
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT WORD COUNT: 194

NOTE:

Figure number on first page: 1

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Word Count Available Text Language Update CLAIMS A (English) 200023 376 200023 SPEC A (English) 3972 Total word count - document A 4348 Total word count - document B 0 Total word count - documents A + B 4348

... ABSTRACT to include a time stamp. A web browser and a web server are disclosed that accommodate a time stamp parameter and allow a user to refer to any Web address with a precise target date...

...facilitate the specification of the desired date and time, or the user can manually append the time stamp to the URL indicated in the "Location" window of the browser. The persistent Web servers (i) receive URLs containing a time stamp, (ii) extract the time stamp, (iii) retrieve the Web page corresponding to the requested time - stamp, if it exists, or, retrieve a version of the Web page stored time-wise in the vicinity of the requested target time if a version of the Web page corresponding to the requested time - stamp does not exist, and (iv) return the appropriate page to the client. The persistent Web servers include a persistent archive for storing all of the versions...

...SPECIFICATION to facilitate the specification of the desired date and time, or the user can manually append the **time stamp** to the **URL** indicated in the "Location" window of the browser.

The persistent Web server (i) receives URLs containing a time stamp , (ii) retrieves the Web page corresponding to the requested time-stamp , if it exists, or, retrieves a version of the Web page stored time-wise in the vicinity of the requested target time if a version of the Web page corresponding to the requested time - stamp does not exist, and (iii) returns the appropriate page to the client. The persistent Web server interprets the extracted URL in accordance with the selected time - stamp format. In addition, the persistent Web server includes a persistent archive for storing all of the versions... the month, day and year (or other time units) can be expressed in any order. For a URL without a time stamp, the default value will be the most recent version.

In addition, relative time...

### ...the form:

http://www.lucent.com?time=yesterday The browser and server will interpret and translate the URL as

http://www.lucent.com?rtime=1998(underscore)1(underscore)9.

Other relative time stamps can include time offsets from the time of the current web page, such as plus or minus...

...currently viewed web page.

In order to refer to the previous or subsequent archived version of a document (relative to the time stamp of the current document), the URL can be represented using the labels "next(underscore)archive," or "previous(underscore)archive." The server will search...

...document to refer to one of these archives:

doc.html?rtime=next(underscore)archive

stamps make moving between different These relative archive time stamps make moversion of the same documents more efficient. These relative archive time

In an alternate implementation, referred to herein as the "request-header scheme," the time stamp...

...herein as the " special character scheme, " special characters can be utilized to indicate the inclusion of a time stamp in the URL, such

http://www.cnnfn.com;time=2+2+1998&timezone=server.

Web Browser

The Web browser...

...time. In fact, a conventional Web browser 100 can be utilized, with the user manually appending the time stamp to the URL indicated in the "Location" window of the browser 100.

In one implementation, the...iii) retrieve the Web page corresponding to the requested time-stamp, if it exists, or, retrieve a version of the Web page stored time-wise in the vicinity of the requested target time if a version of the Web page corresponding to the requested time- stamp does not exist, (iv) modify the requested Web page to update embedded hyperlinks to incorporate the same time stamp the requested Web page and (v) return the requested page to the client. The persistent Web servers 140, 150 should interpret the extracted URL in accordance with the selected time stamp format.

If a version of the Web resource corresponding to the requested time does not exist, the present invention provides a version of the document stored time-wise in the vicinity of the requested target time. For example, the present invention may...

- CLAIMS 1. A method for providing an electronic document , said electronic document having multiple versions, each of said versions having a time-stamp, said method comprising...
- ... of said electronic document stored time-wise in the vicinity of the requested time-stamp when a version of said electronic document does not exist with the requested time-stamp.
  - 2. The method according to claim 1, further comprising the step of storing a pointer to a previous version of said electronic document when said previous version of said electronic document is substantially identical.
  - 3. The method according to claim 1, wherein an address identifying said electronic document...
- ... The method according to claim 1, wherein said transmitting step further comprises the step of transmitting a version of said electronic document with the most recent time-stamp preceding the requested time-stamp when a version of said electronic document does not exist with the requested time-stamp.
  - 9. The method according to claim 1, wherein said transmitting step further comprises the step of transmitting a version of said electronic document with the most recent time-stamp following the requested time-stamp when a version of said electronic document does not exist with the requested time-stamp.
  - 10. A system for storing an electronic document having multiple
  - versions , said system comprising:
    a memory for storing said multiple versions of said electronic document in an archive...

DIALOG(R) File 348: EUROPEAN PATENTS (c) 2005 European Patent Office. All rts. reserv. A method and apparatus for persistent storage of web resources Verfahren und Vorrichtung zum dauerhaften Speichern von Web-Betriebsmitteln Methode et appareil pour le stockage permanent de ressources du Web PATENT ASSIGNEE: LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, (US), (Applicant designated States: all) **INVENTOR:** Ong, Ping-Wen, 430 Laurel Avenue, Middletown, New Jersey 07748, (US) LEGAL REPRESENTATIVE: Watts, Christopher Malcolm Kelway, Dr. et al (37391), Lucent Technologies (UK) Ltd, 5 Mornington Road, Woodford Green Essex, IG8 0TU, (GB) PATENT (CC, No, Kind, Date): EP 1006462 A2 000607 (Basic) EP 1006462 A3 050330 APPLICATION (CC, No, Date): EP 99309298 991123; PRIORITY (CC, No, Date): US 201752 981201 DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI INTERNATIONAL PATENT CLASS: G06F-017/30 ABSTRACT WORD COUNT: 178 NOTE: Figure number on first page: 1 LANGUAGE (Publication, Procedural, Application): English; English FULLTEXT AVAILABILITY: Available Text Language Update Word Count CLAIMS A (English) 200023 332 SPEC A (English) 200023 3857 Total word count - document A 4189 Total word count - document B 0 Total word count - documents A + B 4189

...SPECIFICATION the month, day and year (or other time units) can be expressed in any order. For a URL without a time stamp, the default value will be the most recent version.

In addition, relative time...

## ...the form:

http://www.lucent.com?time=yesterday

The browser and server will interpret and translate the URL as

http://www.lucent.com?rtime=1998(underscore)1(underscore)9.

Other relative time stamps can include time offsets from the time of the current web page, such as plus or minus...

...currently viewed web page.

In order to refer to the previous or subsequent archived version of a document (relative to the time stamp of the current document), the URL can be represented using the labels "next(underscore)archive," or "previous(underscore)archive." The server will search...

...document to refer to one of these archives:

doc.html?rtime=next(underscore)archive

These relative archive time stamps make moving between different version of the same documents more efficient.

In an alternate implementation, referred to herein as the

"request-header scheme," the time stamp...

...herein as the "special character scheme," special characters can be utilized to indicate the inclusion of a time stamp in the URL, such as:

http://www.cnnfn.com;time=2+2+1998&timezone=server.

Web Browser

The Web browser...

CLAIMS 1. A method for persistent storage of an electronic document , said electronic document having multiple versions, said method comprising the steps of: receiving a request for one...

...time-stamp;

modifying the requested version of said electronic document to update embedded hyperlinks in said requested version of said electronic document to incorporate the time-stamp of said requested version of said electronic document; and

transmitting said requested electronic document to a client.

- 2. The method according to claim 1, further comprising the step of storing a pointer to a previous version of said electronic document if said previous version of said electronic document is substantially identical.
- 3. The method according to claim 1, wherein an address identifying said electronic document...

...said time stamp.

- 6. The method according to claim 1, further comprising the step of modifying the version of said electronic document with the most recent time-stamp preceding the requested time-stamp if a version of said electronic document does not exist with the requested time-stamp.
- 7. The method according to claim 1, wherein said...

...1, wherein said time-stamp is a relative time-stamp.

- 9. A system for storing an electronic document having multiple versions , said system comprising:
- a memory for storing said multiple **versions** of said electronic **document** in an archive of electronic documents; and
- a processor operatively coupled to said memory, said processor configured...

9/3,K/11 (Item 11 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS

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01136612

Automatic image data quality adjustment to reduce response time of a Web server

Automatische Anpassung der Qualitat von Bilddaten um die Antwortzeiten eines Web-Servers zu reduzieren

Ajustement automatique de la qualite des images pour reduire le temps de reponse d'un serveur Web

PATENT ASSIGNEE:

International Business Machines Corporation, (200128), New Orchard Road, Armonk, NY 10504, (US), (Proprietor designated states: all) INVENTOR:

Bhagwat, Pravin, c/o IBM United Kingdom Ltd., Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB) Han, Richard Yeh-whein,c/o IBM United Kingdom Ltd., Intellectual Property

Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB) La Maire, Richard O., c/o IBM United Kingdom Ltd., Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB) Mummert, Todd William, c/o IBM United Kingdom Ltd., Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB) Rubas, James, c/o IBM United Kingdom Ltd., Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB) LEGAL REPRESENTATIVE: Davies, Simon Robert (75452), IBM, United Kingdom Limited, Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB) PATENT (CC, No, Kind, Date): EP 992922 A2 EP 992922 A3 000412 (Basic) 010110 EP 992922 B1 040818 EP 992922 B1 040818 APPLICATION (CC, No, Date): EP 99307580 990924; PRIORITY (CC, No, Date): US 236622 990129; US 102944 P 981002 DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI INTERNATIONAL PATENT CLASS: G06F-017/30 ABSTRACT WORD COUNT: 122 NOTE: Figure number on first page: 6 LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY: Available Text Language Update Word Count

(English) 200015 543 CLAIMS A CLAIMS B (English) 200434 849 CLAIMS B (German) 200434 906 CLAIMS B (French) 200434 986 (English) 200015 9376 SPEC A SPEC B (English) 200434 9389 Total word count - document A 9921 Total word count - document B 12130 Total word count - documents A + B 22051

...SPECIFICATION occur, the HTTP proxy 220 first checks its cache 410 to see if an "up-to-date" version of the data object is available at the requested resolution or transcoding level. Each object in the multi-resolution cache 410 is stored with a version specifier that includes: a URL description, a time stamp for the data object, and the object characteristics. For a JPEG image the object characteristics include color-depth, scaling factor...

...SPECIFICATION occur, the HTTP proxy 220 first checks its cache 410 to see if an "up-to-date" version of the data object is available at the requested resolution or transcoding level. Each object in the multi-resolution cache 410 is stored with a version specifier that includes: a URL description, a time stamp for the data object, and the object characteristics. For a JPEG image the object characteristics include color-depth, scaling factor...

9/3,K/13 (Item 13 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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#### 00467329

Maintaining consistency of cached data in a database system. Bewahren der Konsistenz von Cachedaten in einem Datenbanksystem. Maintenir la coherance de donnees d'antememoire dans une base de donnees. PATENT ASSIGNEE:

Hewlett-Packard Company, (206030), 3000 Hanover Street, Palo Alto, California 94304, (US), (applicant designated states: DE;FR;GB)

INVENTOR: Wilkinson, Kevin W., 1158 Pomgranate Court, Sunnyvale, California 94087, Neimat, Marie-Anne, 77 Magnolia Drive, Atherton, California 94087, (US) LEGAL REPRESENTATIVE: Schoppe, Fritz, Dipl.-Ing. (55463), Seitnerstrasse 42, W-8023 Pullach bei Munchen, (DE) PATENT (CC, No, Kind, Date): EP 471282 A2 920219 (Basic) EP 471282 A3 930915 APPLICATION (CC, No, Date): EP 91113284 910808; PRIORITY (CC, No, Date): US 566732 900813 DESIGNATED STATES: DE; FR; GB INTERNATIONAL PATENT CLASS: G06F-015/40; ABSTRACT WORD COUNT: 147 LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY: Available Text Language Update Word Count CLAIMS A (English) EPABF1 490 (English) EPABF1 5750 SPEC A Total word count - document A 6240 Total word count - document B 0 Total word count - documents A + B 6240 ...SPECIFICATION Conference, Washington DC, June 1986. To detect view updates, a base table must be augmented with a timestamp and link field for each tuple. An algorithm for arbitrary select-project-join views is described in Blakeley, J...that supports read-only caching for workstations accessing a central database is described in Gladney, H.M., Replicas in Distributed Information Services, " ACM Transactions on Database Systems, Vol. 14, No. 1, March 1989. This system requires changes to the database management system to timestamp base Optimistic concurrency control is a system that does not use locks. Instead, transactions proceed unhindered until commit ... (Item 1 from file: 349) DIALOG(R) File 349:PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv. 00787798 METHODS AND APPARATUS FOR STORING, RETRIEVING AND MANIPULATING HYPERTEXT DATA PROCEDES ET APPAREILS DE STOCKAGE, RECHERCHE, ET MANIPULATION DE DONNEES HYPERTEXTE Patent Applicant/Assignee: WWWHOOSH INC, 160 Old Maple Street, Stoughton, MA 02072, US, US (Residence), -- (Nationality), (For all designated states except: US) Patent Applicant/Inventor: BATTERSBY Clinton Brenton, 64 Laurelwood Drive, Stoughton, MA 02072, US, US (Residence), -- (Nationality), (Designated only for: US) Legal Representative: CALL Charles G (agent), 53 Saint Stephen Street, Boston, MA 02115, US, Patent and Priority Information (Country, Number, Date): WO 200120485 A2-A3 20010322 (WO 0120485) WO 2000US25358 20000913 (PCT/WO US0025358) Application: Priority Application: US 99153516 19990913 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MK MN MW MX NO NZ PL PT RO RU SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

```
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 38642
Fulltext Availability:
  Detailed Description
Detailed Description
... OC information
  at runtime for the proxy.
  The request-handling logic consults OCCache to keep track
  of timestamps, OC files requested but not found, and OC/OCD files
  already retrieved.
  OCCACHE
  public class OCCache
  //private String -etag;
  private String -domain = "none"i
  private String...
...private Hashtable notfound = new Hashtableo; //URL and "NF" if
  previously not found
  private Hashtable
  @processed = new Hashtableo; // URL and date if OC has been fetched
  private Hashtable -OCDCache new Ha5htable //OCD file
                                                         URL and int
  timestamp or -1 if
  fetch-in-progress
  private boolean -building = false;
  private static long socket-create
  total-ms=0;
  private static long socket count=0;
  private static Socket cacheaSocket=null;
  // record version number of
  public int getVersionNumbero
  return 0;
  public void clearCache3()
  -checks.clearo;
  -OCDCache.clearo;
  -processed.clearo;
 Debug...
              (Item 4 from file: 349)
 9/3, K/17
DIALOG(R) File 349: PCT FULLTEXT
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            **Image available**
00560540
MULTI-TARGET LINKS FOR NAVIGATING BETWEEN HYPERTEXT DOCUMENTS AND THE LIKE
LIENS A PLUSIEURS CIBLES PERMETTANT DE NAVIGUER ENTRE DES DOCUMENTS
    HYPERTEXTE ET ANALOGUES
Patent Applicant/Assignee:
  INTERNATIONAL BUSINESS MACHINES CORPORATION,
Inventor(s):
  BATES Cary Lee,
  DAY Paul Reuben,
Patent and Priority Information (Country, Number, Date):
                        WO 200023913 A1 20000427 (WO 0023913)
  Patent:
                        WO 99US3460 19990218 (PCT/WO US9903460)
  Application:
  Priority Application: US 98174952 19981019
Designated States:
```

(Protection type is "patent" unless otherwise stated - for applications prior to 2004) CA CN CZ HU IL JP KR PL AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE Publication Language: English Fulltext Word Count: 16423 Fulltext Availability: Detailed Description Detailed Description ... utilized to make an automated image/text-version selection, or to automatically select between JAVA or scripted versions of a document versus non-JAVA or non-scripted versions thereof. other uses will become apparent to one of ordinary... ...building a list of URL's in the link. Next, in block 242, the date that each URL was updated is determined. This may be performed, for example, by retrieving a time stamp for each URL, or by analyzing the text in the document to determine a time stamp therefor. Next, block 244 retrieves the document at the most recent 'URL , and block 246 then determines whether the document retrieval was successful. If so, display page routine 88... (Item 5 from file: 349) 9/3, K/18DIALOG(R) File 349: PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv. 00505696 \*\*Image available\*\* VIDEO PROGRAM BEARING TRANSPORT STREAM REMULTIPLEXER REMULTIPLEXEUR DE FLUX DE TRANSPORT SUPPORTANT UN PROGRAMME VIDEO Patent Applicant/Assignee: SKYSTREAM CORPORATION, Inventor(s): GRATACAP Regis, SLATTERY William, ROBINETT Robert, Patent and Priority Information (Country, Number, Date): Patent: WO 9937048 A1 19990722 Application: WO 99US360 19990107 (PCT/WO US9900360) Priority Application: US 987211 19980114; US 987212 19980114; US 987334 19980114; US 987203 19980114; US 987204 19980114; US 987210 19980114; US 986963 19980114; US 986964 19980114; US 987198 19980114; US 987199 19980114 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD Publication Language: English Fulltext Word Count: 44645 Patent and Priority Information (Country, Number, Date): ... 19990722 Patent: Fulltext Availability: Detailed Description Publication Year: 1999

Detailed Description

... the reference clock generator 1 13 corresponding to the receipt time of the transport packet. The data link control circuit I 1 2 records this time as the receipt time stamp in the descriptor that points to the transport packet storage location in which the transport packet is... packet and updates the respective portion of the PMT with the extracted program definition or PMT section data. Like the PAT, multiple versions of the PMT may be utilized and the processor 160 can determine in which PMT to store...time the first byte of the transport packet is received and stores this value as the receipt time stamp in the field 129-5 of the allocated descriptor. The data link control circuit 1 12 stores the number of bytes of the received transport packet in the field

(Item 6 from file: 349) 9/3, K/19DIALOG(R) File 349: PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv. 00465482 \*\*Image available\*\* SYSTEM AND METHOD FOR INDEXING INFORMATION ABOUT ENTITIES FROM DIFFERENT INFORMATION SOURCES SYSTEME ET PROCEDE PERMETTANT L'INDEXAGE D'INFORMATIONS RELATIVES A DES ENTITES PROVENANT DE SOURCES D'INFORMATION DIFFERENTES Patent Applicant/Assignee: MADISON INFORMATION TECHNOLOGIES INC, Inventor(s): ELLARD Scott, Patent and Priority Information (Country, Number, Date): WO 9855947 A1 19981210 WO 98US11438 19980603 (PCT/WO US9811438) Application: Priority Application: US 97870688 19970606 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG Publication Language: English Fulltext Word Count: 11692 Patent and Priority Information (Country, Number, Date): ... 19981210 Patent:

Detailed Description

Fulltext Availability:
Detailed Description
Publication Year: 1998

... data does not have the same record identifier as an existing data record, then the standardized input data may be added into the MEI and a timestamp may be added to the data record in step 180. Then in step 182, the match/ link method 2 1 0 described below and summarized in figure 15 may be perfor m-ed. The...

...same information source. If so, in step 176 an exception may be created that indicates that a **duplicate data record** has been received, the exception handling method described above may be performed, and processing of the insert...

9/3,K/20 (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

```
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            **Image available**
EXTERNAL CACHE FOR ON-LINE RESOURCES
ANTEMEMOIRE EXTERIEURE DESTINEE A DES RESSOURCES EN LIGNE
Patent Applicant/Assignee:
  MICROAGE COMPUTER CENTERS INC,
  CADIS Harman D,
  GRANT Bruce,
  WILLIAMSON Patrick C,
  WEBSTER Kevin,
Inventor(s):
  CADIS Harman D,
  GRANT Bruce,
  WILLIAMSON Patrick C,
  WEBSTER Kevin,
Patent and Priority Information (Country, Number, Date):
                        WO 9820426 A1 19980514
  Patent:
                        WO 97US19956 19971030 (PCT/WO US9719956)
  Application:
  Priority Application: US 96743230 19961105
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU
  ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ
  PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH KE LS
  MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR
  IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 7230
Patent and Priority Information (Country, Number, Date):
                        ... 19980514
  Patent:
Fulltext Availability:
  Claims
Publication Year: 1998
Claim
... use in a
  computer network comprising a client node having an external cache
  containing a 5 cached file associated with a first version of a network
  resource, a server node configured to provide access to...
...network resource;
  comparing a first date/time stamp associated with said cached file to a
  second
  date/ time
               stamp associated with said network file;
  retrieving said cached file from said external cache when said first
  date/ time
  stamp is newer than said second date/ time
                                                 stamp ; and
  downloading, via said data communication link, said network file
  from said 25 server node to said client node when said second date/ time
  stamp is newer than said first date/time stamp.
  1 0. A method according to claim 9, wherein...
 9/3,K/21
              (Item 8 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.
            **Image available**
00424432
CACHING SYSTEMS
SYSTEME D'ANTEMEMOIRE
Patent Applicant/Assignee:
  VIEWINN PLC,
```

```
JAMES Ian Roger,
Inventor(s):
  JAMES Ian Roger,
Patent and Priority Information (Country, Number, Date):
                         WO 9814894 A1 19980409
  Patent:
  Application:
                         WO 97GB2701 19970930
                                                (PCT/WO GB9702701)
  Priority Application: GB 9620665 19960930
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU ID IL IS
  JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU
  SD SE SG SI SK TJ TM TR TT UA UG US UZ VN GH KE LS MW SD SZ UG ZW AM AZ
  BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 7162
Patent and Priority Information (Country, Number, Date):
                         ... 19980409
  Patent:
Fulltext Availability:
 Detailed Description
Publication Year: 1998
Detailed Description
... If a page retrieval request has been received, the cache
  server 6 checks whether it holds a copy of a Web page having the specified address in the cache store 34, step 50. If no...
...the data in cache store 34, step 54. Also
  stored with the cached page copy is the time
                                                    stamp of the newly
  pre-fetched copy, which specifies the time of receipt of the
  The cached file is then transmitted, in HTTP format, to the client, step 56, and the file retrieval data 32 is updated,
  The file retrieval data includes the page address
  retrieved, and the time stamp of the page
                                                     copy . Since the Web
  page is a newly-cached Web page, the Web page address ( URL ) is
  added to the dynamic address list 28, step 59. A default
  timing parameter is associated with...
               (Item 10 from file: 349)
 9/3, K/23
DIALOG(R) File 349: PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.
00334948
             **Image available**
METHODS AND SYSTEMS FOR PREVENTING UNNECESSARY FILE TRANSFERS BETWEEN A
    SERVER AND A REMOTE NODE
PROCEDE ET SYSTEME PERMETTANT D'EVITER LES TRANSFERTS INUTILES DE FICHIERS
    ENTRE UN SERVEUR ET UN NOEUD ELOIGNE
Patent Applicant/Assignee:
  XCELLENET INC,
  TRUGMAN Rodney M,
 OWEN Joseph W,
  NAWAR Shereef W,
Inventor(s):
  TRUGMAN Rodney M,
  OWEN Joseph W,
  NAWAR Shereef W,
Patent and Priority Information (Country, Number, Date):
                         WO 9617460 A1 19960606
  Patent:
                         WO 95US14490 19951121 (PCT/WO US9514490)
  Application:
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Priority Application: US 94348596 19941202 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AL AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG US UZ VN KE LS MW SD SZ UG AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG Publication Language: English Fulltext Word Count: 4807 Patent and Priority Information (Country, Number, Date): ... 19960606 Fulltext Availability: Claims English Abstract ...to the server are prevented if insufficient storage is available at the destination or if an updated version of an existing file is not newer than the existing file. File transfers are inhibited if insufficient storage space is available... ... space at the destination and inhibiting file transfer if insufficient space is available. Transfer of an updated version of a file is prevented if the updated timestamp is not newer than the existing timestamp at the destination. Unnecessary file transfers are thereby prevented and connection time of the remote/mobile link is reduced. Publication Year: 1996 Claim ... and said node being the destination of the file transfer; means for inhibiting transfer cf an updated version of a file from said source to said destination ...16. A system according to Claim 15 wherein said updated version at said source includes an updated timestamp associated therewith and said file at said destination includes an existing timestamp associated therewith, and wherein said inhibiting means comprises: means for inhibiting transfer of said file from said source to said destination via said remote/mobile communications link if said updated timestamp is same as or earlier than said existing timestamp . 17. A system according to Claim 16 wherein said inhibiting means comprises: means for issuing a CHECK... ...returning an indication to said source which indicates if the existing timestamp is newer than the updated timestamp ; and means inhibiting transfer of said file from said source to said destination upon receipt ...according to Claim 15 wherein said inhibiting means further comprises: means for inhibiting transfer of saia updated

version of said file from said source to said destination if insufficient storage space is available

at said destination.